|  |  |
| --- | --- |
| Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t | Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t |
| Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t | Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t |
| Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t | Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t |
| Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t | Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t |
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| Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t | Simplify:  a) x + x + x + x  b) c x c x c  c) 2b + 6a – b + 2a  d) 8r x 4s  e) 6t x 5t |
| If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c | If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c |
| If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c | If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c |
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| If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c | If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c |
| If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c | If a = 4, b = 2 and c = -3, work out the value of:  1) a + b  2) b²  3) abc  4) 2a – 3b + 4c |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) | Expand:  1) 3(x + 2)  2) a(4 + a)  3) y(2y – x)  4) 4r(3s – t) |
| Factorise fully:  1) 4x + 12  2) a² + 9a  3) 8bc – 12b² | Factorise fully:  1) 4x + 12  2) a² + 9a  3) 8bc – 12b² |
| Factorise fully:  1) 4x + 12  2) a² + 9a  3) 8bc – 12b² | Factorise fully:  1) 4x + 12  2) a² + 9a  3) 8bc – 12b² |
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| Factorise fully:  1) 4x + 12  2) a² + 9a  3) 8bc – 12b² | Factorise fully:  1) 4x + 12  2) a² + 9a  3) 8bc – 12b² |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) | Expand:  1) (x + 3)(x + 2)  2) (x – 6)(x + 3)  3) (3x – 1)(x + 4) |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 | Factorise:  1) x² + 8x + 12  2) x² - 3x - 18  3) x² - 12x + 36 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 | Factorise:  1) 6x² + 23x + 20  2) 15x² - 29x - 14 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Simplify:  x² - 16\_\_\_  2x² - 5x - 12 | Simplify:  x² - 16\_\_\_  2x² - 5x - 12 |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) | Expand:  1) (x + 1)(x + 3)(x – 2)  2) (x + 4)(x – 5)(x – 1) |
| f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). | f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). |
| f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). | f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). |
| f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). | f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). |
| f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). | f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). |
| f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). | f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). |
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| f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). | f(x) = 2x + 1 g(x) = x + 4  a) Write the inverse function of f(x).  b) Calculate the value of gf(3). |