****Expanding and Simplifying GREEN

Expand and simplify these expressions:

(a) $6(4x-3)+3(4x-1)$

(b) $5(5z+12)+3(5z-2)$

(c) $y(5y+6)+y(y-5)$

(d) $r\left(5r+p\right)-2r(r+p)$

(e) $2s(2t-p)+2t(s+p)$

(f) $4a(3b+p)-2a(a-p)$

****Expanding and Simplifying AMBER

Expand and simplify these expressions:

a) $6\left(4x-3\right)$ $+3(4x-1)$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $$×$$ |  |  |  | $$×$$ |  |  |
|  |  |  |  |  |  |  |

(b) $5\left(5z+12\right)$ $+3(5z-2)$

(c) $y\left(5y+6\right)$ $+y(y-5)$

(d) $r\left(5r+p\right)-2r(r+p)$

(e) $2s(2t-p)+2t(s+p)$

(f) $4a(3b+p)-2a(a-p)$

****Expanding and Simplifying RED

Expand and simplify these expressions:

a) $6\left(4x-3\right)$ $+3(4x-1)$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $$×$$ | $$4x$$ | $$-3$$ |  | $$×$$ | $$4x$$ | $$-1$$ |
| $$6$$ |  |  |  | $$+3$$ |  |  |

(b) $5\left(5z+12\right)$ $+3(5z-2)$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $$×$$ | $$5z$$ | $$+12$$ |  | $$×$$ | $$5z$$ | $$-2$$ |
| $$5$$ |  |  |  | $$+3$$ |  |  |

(c) $y\left(5y+6\right)$ $+y(y-5)$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $$×$$ |  |  |  | $$×$$ |  |  |
|  |  |  |  |  |  |  |

(d) $r\left(5r+p\right)$ $-2r(r+p)$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| $$×$$ |  |  |  | $$×$$ |  |  |
|  |  |  |  |  |  |  |

(e) $2s(2t-p)+2t(s+p)$

(f) $4a(3b+p)-2a(a-p)$