

WARM UP

Factor each of the following

$$3b^2 - 6b + 9$$

$$3(b^2 - 2b + 3)$$

$$x^2 + 5x - 84$$

$$(x+12)(x-7)$$

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Factor each of the following

$$4x^2y + 12xy$$

$$4xy(x+3)$$

$$5x^3y^3z^2 - 20x^4y^2z$$

$$5x^2yz(yz-4x)$$

Factor each of the following

$$6x^2 + x - 2$$

$$\overbrace{6x^2 - 3x + 4x - 2}^{+ -}$$

$$3x(2x-1) + 2(2x-1)$$

$$(3x+2)(2x-1)$$

$$2y^2 + 16y + 30$$

$$2(y^2 + 8y + 15)$$

$$2(y+3)(y+5)$$

$$15$$

$$1 \cdot 15$$

$$\rightarrow 3 \cdot 5$$

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Factor each of the following

$$6x^2 - 19x + 10$$

$$\begin{array}{l} 6x^2 - 4x - 15x + 10 \quad 60 \\ 2x(3x - 2) - 5(3x - 2) \quad 1 \cdot 60 \\ \quad \quad \quad \quad \quad \quad \quad 2 \cdot 30 \\ \quad \quad \quad \quad \quad \quad \quad 3 \cdot 20 \\ (2x - 5)(3x - 2) \quad \rightarrow 4 \cdot 15 \end{array}$$

$$4y^2 + 7y - 15$$

$$\begin{array}{l} 4y^2 + 12y - 5y - 15 \\ 4y(y + 3) - 5(y + 3) \\ (4y - 5)(y + 3) \end{array}$$

$$\begin{array}{l} 60 \\ 1 \cdot 60 \\ 2 \cdot 30 \\ 3 \cdot 20 \\ 4 \cdot 15 \\ \rightarrow 5 \cdot 12 \end{array}$$

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