

13.2 EXT

Factoring Expressions

Divide

Simplify

$$1) \frac{6m + 36}{6}$$

Divide

Simplify

$$2) \frac{27u - 36v}{9}$$

Divide

Simplify

$$3) \frac{24x^3 - 16y^2 + 48}{8}$$

Divide

Simplify

$$4) \frac{5a - 10a^2 - 15a^3}{5}$$

Divide

Simplify

$$5) \frac{2x^4 - 8x^3 + 4x^2}{-2}$$

Review

Use the reverse of the distributive property for the following:

$$6) \quad 3x + 3y = \quad (\quad)$$

$$7) \quad ab + ad = \quad (\quad)$$

$$8) \quad 4x + 12 = \quad (\quad)$$

“Reverse Distributive Property”

$$9) \quad 3x^2 + 12$$

Factoring:

10) $14a + 21b$

Factoring:

$$11) \quad 6x^3 - 4x^2 + 8$$

Factoring:

$$12) \quad \frac{5x}{4} - \frac{3}{4}$$

Practice

Factor the following using the GCF

13) $24x - 18$

14) $6x - 27$

Practice

15) Factor $\frac{1}{2}$ out of $\frac{1}{2}x + \frac{3}{2}$

Practice

16) Factor $\frac{1}{5}$ out of $\frac{1}{5}x + \frac{4}{5}$

Practice

17) Factor -2 out of $-4p + 10$

Practice

18) Factor -4 out of $-12r - 20$