



Simplifying Algebraic Expressions

Name _____

Score _____

SAE:13

Factorize and write it in the simplest expression.

1)
$$\frac{2s^4 - 10s^3}{s - 5}$$

2)
$$\frac{6k^2 + k - 15}{2k^2 + k - 6}$$

3)
$$\frac{6k + 12}{3k^2 - 6k - 24}$$

4)
$$\frac{(x - y)(2x + 2y)}{x^2 - y^2}$$

5)
$$\frac{3a - 7}{3a^2 + 17a - 56}$$

6)
$$\frac{(4m - 24n)(m - 2n)}{8m - 16n}$$



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Answer key

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Factorize and write it in the simplest expression.

$$1) \frac{2s^4 - 10s^3}{s - 5}$$

$$2s^3$$

$$2) \frac{6k^2 + k - 15}{2k^2 + k - 6}$$

$$\frac{3k + 5}{k + 2}$$

$$3) \frac{6k + 12}{3k^2 - 6k - 24}$$

$$\frac{2}{k - 4}$$

$$4) \frac{(x - y)(2x + 2y)}{x^2 - y^2}$$

$$2$$

$$5) \frac{3a - 7}{3a^2 + 17a - 56}$$

$$\frac{1}{a + 8}$$

$$6) \frac{(4m - 24n)(m - 2n)}{8m - 16n}$$

$$\frac{m - 6n}{2}$$