



# Simplifying Algebraic Expressions

Name \_\_\_\_\_

Score \_\_\_\_\_

SAE:14

Factorize and write it in the simplest expression.

1) 
$$\frac{m^2 + 2mn + n^2}{m + n}$$

2) 
$$\frac{125u^3 - 64v^3}{25u^2 + 20uv + 16v^2}$$

3) 
$$\frac{(g - 1)(2g + 5)}{(6g + 15)(g + 3)}$$

4) 
$$\frac{(6 - v)(7 + b)}{49 - b^2}$$

5) 
$$\frac{17p - 34}{p^2 - 4}$$

6) 
$$\frac{9t^2 - 9t - 18}{3t + 3}$$



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## Answer key

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Factorize and write it in the simplest expression.

1) 
$$\frac{m^2 + 2mn + n^2}{m + n}$$

**$m + n$**

2) 
$$\frac{125u^3 - 64v^3}{25u^2 + 20uv + 16v^2}$$

**$5u - 4v$**

3) 
$$\frac{(g - 1)(2g + 5)}{(6g + 15)(g + 3)}$$

**$\frac{g - 1}{3g + 9}$**

4) 
$$\frac{(6 - v)(7 + b)}{49 - b^2}$$

**$\frac{6 - v}{7 - b}$**

5) 
$$\frac{17p - 34}{p^2 - 4}$$

**$\frac{17}{p + 2}$**

6) 
$$\frac{9t^2 - 9t - 18}{3t + 3}$$

**$3t - 6$**