

Name : \_\_\_\_\_

## Factorize & Simplify

ES1

Factorize each expression and reduce to its lowest term.

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

2)  $\frac{(a - 2)(a - 1)}{(a - 1)(a + 1)}$

3)  $\frac{10n - 30}{5n - 15}$

5)  $\frac{9}{9y + 18}$

7)  $\frac{4s^4 - 6s^3}{2s^3 - 3s^2}$

8)  $\frac{9p^4 + 3}{6p^5 + 2p}$

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**Answer key**

ES1

**Factorize & Simplify**

Factorize each expression and reduce to its lowest term.

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

$\frac{x}{2}$

2)  $\frac{(a - 2)(a - 1)}{(a - 1)(a + 1)}$

$\frac{a - 2}{a + 1}$

3)  $\frac{10n - 30}{5n - 15}$

$2$

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5)  $\frac{9}{9y + 18}$

$\frac{1}{y + 2}$

7)  $\frac{4s^4 - 6s^3}{2s^3 - 3s^2}$

$2s$

8)  $\frac{9p^4 + 3}{6p^5 + 2p}$

$\frac{3}{2p}$