

Name : _____

DS1

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{(4z - 5)(-9z - 6)}{12z^2 - 7z - 10}$

2) $\frac{-11a - a^2 + 60}{a^2 - 23a + 76}$

3) $\frac{2m^2 + 13m}{3m^2 + 17m}$

$\frac{21t}{t}$

5) $\frac{19q - 48 - q}{80 - q^2 + 11q}$

$\frac{-x}{110}$

7) $\frac{36c^3 + 60c^2 + 25c}{6c^2 + 5c}$

8) $\frac{4 - n^2}{4 - 4n + n^2}$

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Name : _____

Answer key

DS1

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{(4z - 5)(-9z - 6)}{12z^2 - 7z - 10}$

$\frac{-3}{-3}$

2) $\frac{-11a - a^2 + 60}{a^2 - 23a + 76}$

$\frac{-(a + 15)}{a - 19}$

3) $\frac{2m^2 + 13m + 12}{3m^2 + 17m + 12}$

$\frac{2m + 9}{3m + 11}$

5) $\frac{19q - 48 - q^2}{80 - q^2 + 11q}$

$\frac{q - 3}{q + 5}$

7) $\frac{36c^3 + 60c^2 + 25c}{6c^2 + 5c}$

$6c + 5$

8) $\frac{4 - n^2}{4 - 4n + n^2}$

$\frac{2 + n}{2 - n}$

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