Multiplying Rational Expressions

Name: _ Period:

For each problem: factor and simplify.

$$4) \frac{x^2 - 3x - 10}{x + 7} \cdot \frac{3x + 21}{6x - 30}$$

$$7 \frac{25 - x^2}{14x^3y^8} \cdot \frac{7x^2y}{8x + 40}$$

$$9 \frac{2x+10}{32-8x} \cdot \frac{x^2-10x+24}{x^2-x-30}$$

$$10 \frac{12x + 48}{6x - 15} \cdot \frac{4x^2 - 25}{x^2 + 9x + 20}$$

Answers:

$$\bigcirc$$
 $-\frac{3x}{2y^2}$

$$\bigcirc \frac{4(2x+5)}{x+5}$$

$$\bigcirc F -\frac{x-4}{x+4}$$

 $\bigcirc \frac{x+2}{2}$

$$\bigcirc$$
 $-\frac{1}{4}$

$$\bigcirc \frac{2x^2}{3y^2}$$

$$\bigcirc \frac{x(2x+7)}{x-1}$$

$$(s) - \frac{x}{4}$$

E
$$2(x + 4)$$
A $\frac{4(2x - 5)}{3(x + 4)}$

What Do You Call a Message Printed on a Lion With Chickenpox?

