

$$2 - 3 / 2 - 4$$

Multiplying and Dividing Rational Numbers

Products/Quotients

same sign: positive

$$3 \cdot 3 = 9$$

$$-3 \cdot -3 = 9$$

different signs: negative

$$5 \cdot -3 = -15$$

$$-2 \cdot 4 = -8$$

Ex: $4(-5)$ -20

Ex: $(-12)(-6)$ 72



Ex: $4(-3y)$ - $15y$

$$-12y - 15y$$

$$\boxed{-27y}$$

Ex: $13x +$ $(-6)(4x)$

$$13x + -24x$$

$$\boxed{-11x}$$

Multiplying Fractions....

$$\text{Ex: } \left(-\frac{3}{4}\right)\left(\frac{3}{8}\right) = -\frac{9}{32}$$

$$\text{Ex: } \left(-\frac{2}{3}\right)\left(-\frac{3}{4}\right) = \frac{6}{12} = \frac{1}{2}$$

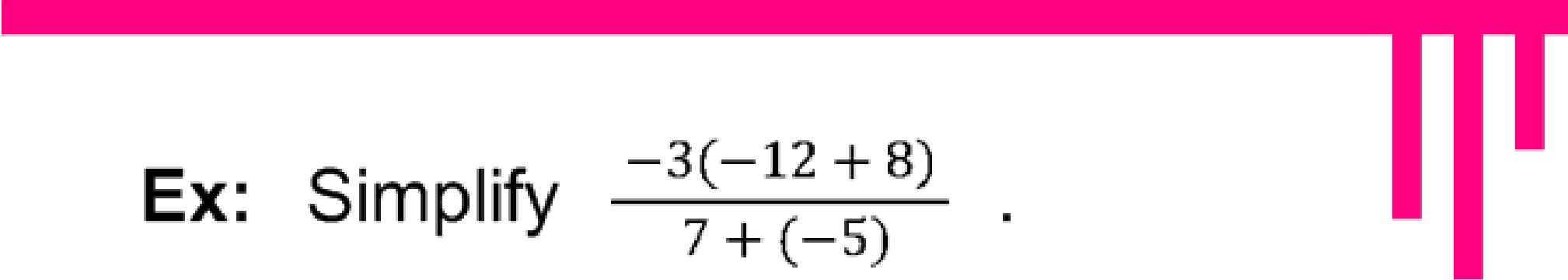


Ex: Evaluate $\left(-\frac{3}{7}\right)x^3$ if $x = -\frac{1}{2}$.



Ex: $-77 \div 11$

Ex: $\frac{-64}{-4}$



Ex: Simplify $\frac{-3(-12 + 8)}{7 + (-5)}$.



Ex: Simplify $\frac{24 - 6a}{3}$.

Ex: Simplify $\frac{-8f + (-16g)}{8}$.



Ex: $-\frac{2}{5} \div \frac{1}{4}$

Ex: $-\frac{2}{3} \div 12$



Homework:

2-3 / 2-4 WS