

Exercise A.1.63 and 67

Evaluate the expression for $x=3$ and $y=-2$.

A.1.63 $\frac{|x|}{x}$.

Solution

we substitute to get

$$\frac{|x|}{x} = \frac{|3|}{3} = \frac{3}{3} = 1.$$

So $\boxed{\frac{|x|}{x} = 1}$ for $x=3$. \square

A.1.67 $|14x| - 15y|$.

Solution

we substitute to get

$$|14x| - 15y| = |14(3)| - 15(-2)|$$

$$= ||12| - |-10|| = |12 - 10|$$

$$= |2| = 2.$$

So $\boxed{|14x| - 15y| = 2}$ for $x=3$ and $y=-2$. \square