## Section 2.5 Division with Negative Numbers

1. Rule for Dividing with Positive and Negative Numbers: To divide any two numbers

- Divide their absolute values.
- The answer is positive if both the original numbers have the same sign.
- The answer is negative if the original numbers have different signs.
In other words,
- The quotient of two positive numbers is a positive number.
- The quotient of two negative numbers is a positive number.
- The quotient of a positive number and a negative number (or a negative number and a positive number) is a negative number.

Example: Simplify each of the following.
a. $25 \div(-5)$
b. $(-8) \div(-2)$
c. $(-3)(-10) \div(-6)$
d. $14 \div(-10+8)$
e. $-15(-2)+(-4)$

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\text { f. }-3 \cdot 6 \div(-9)
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