

Absolute Value Solve
02/29/2012

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

1. Solve the inequality.

$$|3x - 10| > 43$$

- A. $x < -11$
B. $x > 17\frac{2}{3}$ or $x < -11$
C. $-11 < x < 17\frac{2}{3}$
D. $x > -11$

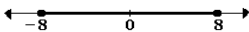
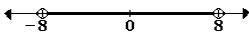
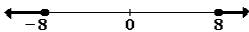
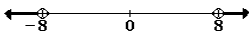
2. Evaluate the following absolute value function for $x = 8$.

$$f(x) = \frac{|3x - 7|}{|x + 12|}$$

- A. $f(8) = \frac{17}{20}$
B. $f(8) = \frac{31}{20}$
C. $f(8) = -\frac{17}{20}$
D. $f(8) = -\frac{31}{20}$

3. Choose the option which shows the inequality expressed on a number line.

$$|x| > 8$$

- A. 
B. 
C. 
D. 

4. Solve for x .

$$|2x - 17| = 27$$

- A. $x = 22$
- B. $x = 22$ or $x = -5$
- C. $x = 5$
- D. $x = 5$ or $x = -22$