

The Heart of Algebra Wrap- Up ET

1.

If $\frac{t+5}{t-5} = 10$, what is the value of t ?

A) $\frac{45}{11}$

B) 5

C) $\frac{11}{2}$

D) $\frac{55}{9}$

2.

Line ℓ in the xy -plane contains points from each of Quadrants II, III, and IV, but no points from Quadrant I. Which of the following must be true?

A) The slope of line ℓ is undefined.B) The slope of line ℓ is zero.C) The slope of line ℓ is positive.D) The slope of line ℓ is negative.

3.

If $3r = 18$, what is the value of $6r + 3$?

A) 6

B) 27

C) 36

D) 39

The Heart of Algebra Wrap- Up ET

4.

If $\frac{5}{x} = \frac{15}{x+20}$, what is the value of $\frac{x}{5}$?

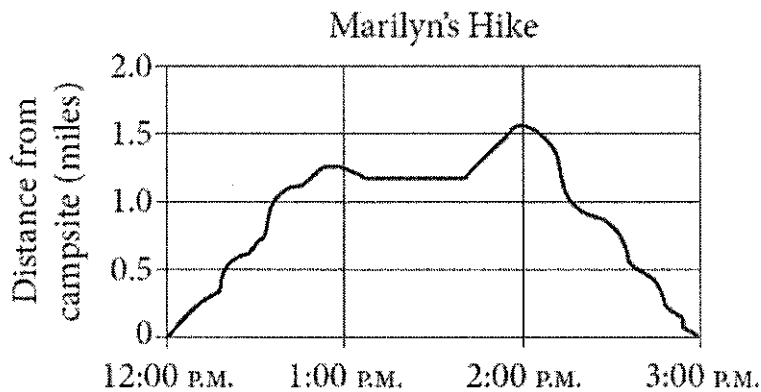
A) 10

B) 5

C) 2

D) $\frac{1}{2}$

5.



The graph above shows Marilyn's distance from her campsite during a 3-hour hike. She stopped for 30 minutes during her hike to have lunch. Based on the graph, which of the following is closest to the time she finished lunch and continued her hike?

A) 12:40 P.M.

B) 1:10 P.M.

C) 1:40 P.M.

D) 2:00 P.M.