

Accuplacer – College-Level Mathematics

Mixed Practice Module #2

For each of the questions below, choose the best answer from the five choices given. Use scratch paper as needed.

1. A root of $x^2 - 3x - 8 = 0$ is?

a. $\frac{3+\sqrt{23}}{2}$

b. $\frac{3-\sqrt{23}}{2}$

c. $\frac{3-\sqrt{41}}{2}$

d. $\frac{-3+\sqrt{41}}{2}$

e. $\frac{-3-\sqrt{23}}{2}$

2. For what real number x is the value of $x^2 + 3x - 18$ negative?

a. $-6 < x < 6$

b. $-6 < x < 3$

c. $x < -6$ or $x > 3$

d. $x = -6$ or $x = 3$

e. For no real numbers x

3. If $f(x) = 2x - 5$ and $f^{-1}(x)$ is the inverse of f , what is the value of $f^{-1}(2)$?

a. -5

b. $-\frac{7}{2}$

c. $\frac{3}{2}$

d. $\frac{5}{2}$

e. 5

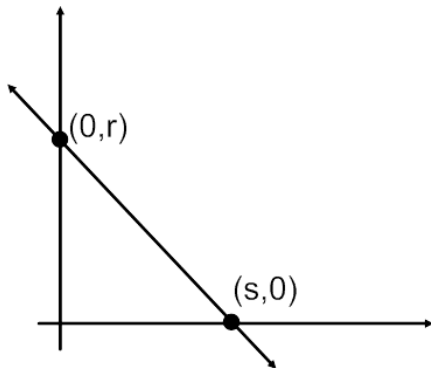
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4. If $f(x) = 3x - 1$ and $g(x) = \frac{x+1}{3}$ then $f(g(x)) =$

- a. x
- b. 0
- c. $\frac{x+1}{9x-3}$
- d. $\frac{9x-3}{x+1}$
- e. $\frac{(3x-1)(x+1)}{3}$

5. If an equation of the linear function in the figure below is $y = mx + b$, then $m =$



- a. $\frac{-r}{s}$
- b. $\frac{r}{s}$
- c. rs
- d. r
- e. $-s$