

Accuplacer – College-Level Mathematics

Mixed Practice Module #3

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

1. Solve for x : $x^2 - 3x - 2$?

a. $\frac{-3 \pm \sqrt{-17}}{2}$

b. $\frac{-3 \pm \sqrt{-1}}{2}$

c. $\frac{3 \pm \sqrt{-17}}{2}$

d. $\frac{3 \pm \sqrt{-1}}{2}$

e. $\frac{3 \pm \sqrt{17}}{2}$

2. $\sin 120^\circ$

a. $\frac{-\sqrt{3}}{2}$

b. $-\frac{1}{2}$

c. 0

d. $\frac{1}{2}$

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

3. $g(x) = 2x - 5$ and $f(x) = -3x + 4$; $g(f(x)) =$

a. $-6x + 3$

b. $-6x + 19$

c. $9x - 8$

d. $4x - 15$

e. $-x - 1$

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4. $2^{2 \log_2 3}$

- a. 2
- b. 3
- c. 4
- d. 6
- e. 9

5. $\frac{\sqrt{a}}{\sqrt{a}+\sqrt{b}} =$

- a. $\frac{a+\sqrt{ab}}{a+b}$
- b. $\frac{a+ab}{a+b}$
- c. $\frac{a-\sqrt{ab}}{a-b}$
- d. $\frac{a-ab}{a-b}$
- e. $\frac{1}{\sqrt{b}}$