

Trig Review Quiz 0-5 E

- _____1. Simplify $\sqrt{160}$
A. 40 B. $10\sqrt{4}$ C. $2\sqrt{40}$ D. $4\sqrt{10}$
- _____2. Factor $x^2 + x - 30$
A. $(x + 6)(x - 5)$ B. $(x - 6)(x + 5)$ C. $(x - 10)(x + 3)$ D. None of the above
- _____3. Simplify $\frac{4 \pm \sqrt{-40}}{2}$
A. $2 \pm i\sqrt{10}$ B. $2 \pm 2i\sqrt{10}$ C. $2 \pm i\sqrt{20}$ D. $2 \pm 2i$
- _____4. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____5. Simplify $\frac{9 \pm \sqrt{18}}{3}$
A. $3 \pm i\sqrt{3}$ B. $3 \pm i\sqrt{2}$ C. $3 \pm \sqrt{3}$ D. $3 \pm \sqrt{2}$
- _____6. Solve for n: $4(2n - 3) + 2(2n - 1) = 10$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____7. Simplify $(x + 1)(x - 1)(x + 2)(x - 2)$
A. $x^4 - 5x^2 + 4$ B. $x^4 - 3x^2 + 4$ C. $x^4 - 6x^2 + 4$ D. None of the above
- _____8. Give the equation of the line in standard form that is perpendicular to $5x - 4y = 2$ and passes through the point (6, 7).
A. $4x - 5y = -11$ B. $5x + 4y = 58$ C. $4x + 5y = 59$ D. $7x + 2y = 53$
- _____9. If A is a 4 x 5 matrix, B a 4 x 3 matrix, and C a 3 x 5 matrix, what matrices could be multiplied?
A. A and B B. A and C C. B and C D. All of them could be
- _____10. What is the horizontal asymptote of $y = \frac{2x^3 + 5}{3x^2 + 1}$?
A. $y = 0$ B. $y = \frac{2}{3}$ C. $y = 1$ D. No horizontal asymptote