

Trig Review Quiz 0 D

- _____1. Simplify $(x - 1)(x^2 + 2x + 3)$
A. $x^3 + x^2 + x - 3$ B. $x^3 + 2x^2 + x - 3$
C. $x^3 + x^2 - x - 3$ D. $x^3 + x^2 + 2x - 3$
- _____2. Simplify $(2n^3)^3$
A. $6n^6$ B. $6n^9$ C. $8n^6$ D. $8n^9$
- _____3. Simplify $(x + 2)(x + 2)(x + 2)$
A. $x^3 + 8$ B. $x^3 + 6x^2 + 4x + 12$
C. $x^3 + 6x^2 + 12x + 8$ D. $x^3 + 8x^2 + 12x + 8$
- _____4. Simplify $\sqrt{-40}$
A. $2\sqrt{10}$ B. $2i\sqrt{10}$ C. $4i\sqrt{10}$ D. $10i\sqrt{2}$
- _____5. Simplify $\sqrt{20a^3y^{10}}$
A. $2ay^5\sqrt{5a}$ B. $5ay^5\sqrt{2a}$ C. $2ay^5\sqrt{5a}$ D. $5ay^5\sqrt{2ay}$
- _____6. Solve by factoring: $x^2 - x - 20 = 0$
A. $x = -5$ or $x = 4$ B. $x = 5$ or $x = -4$
C. $x = 5$ or $x = 4$ D. $x = -5$ or $x = -4$
- _____7. Simplify $\sqrt{160}$
A. 40 B. $10\sqrt{4}$ C. $2\sqrt{40}$ D. $4\sqrt{10}$
- _____8. 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
- _____9. 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. $2 \pm 2i$
- _____10. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$