

Trig Review Quiz 0-2 D

- _____1. 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
- _____2. Simplify $(2n^3y^4)^2 + n(n^5)y^8$
A. $5n^6y^8$ B. $3n^6y^8$ C. $5n^3y^4$ D. $8n^{12}y^{16}$
- _____3. Simplify $\frac{4a^2c^4}{6ac^5}$
A. $-\frac{2a}{3c}$ B. $\frac{4a}{6c}$ C. $\frac{2a}{3c}$ D. None of the above
- _____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 $\frac{4 \pm \sqrt{-40}}{2}$
A. $2 \pm i\sqrt{10}$ B. $2 \pm 2i\sqrt{10}$ C. $2 \pm i\sqrt{20}$ D. $2 \pm 2i$
- _____6. Simplify $\sqrt{160}$
A. 40 B. $10\sqrt{4}$ C. $2\sqrt{40}$ D. $4\sqrt{10}$
- _____7. **Solve by factoring:** $2x^2 + 19x + 9 = 0$
A. $x = 9$ or $x = \frac{1}{2}$ B. $x = 9$ or $x = -\frac{1}{2}$
C. $x = -9$ or $x = \frac{1}{2}$ D. $x = -9$ or $x = -\frac{1}{2}$
- _____8. Simplify $(n + 5)^2$
A. $n^2 + 25$ B. $n^2 + 10$ C. $n^2 + 10n + 25$ D. $n^2 + 10n + 10$
- _____9. Simplify $\left(\frac{n^2y^{-2}}{a^{-4}}\right)^2$
A. $\frac{n^4y^4}{a^{16}}$ B. $\frac{n^4y^4}{a^8}$ C. $\frac{n^4a^{16}}{y^4}$ D. $\frac{n^4a^8}{y^4}$
- _____10. In interval notation, what is $y > 2$?
A. $(-\infty, 2)$ B. $(-\infty, 2]$ C. $(2, \infty)$ D. $[2, \infty)$