

Download File PDF Algebra 1 Quadratics Unit Test Answers

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so many fake sites. this is the first one which worked! Many thanks

Polynomial Practice Test Answer Key:

Answers are given first with explanations in the parenthesis behind the answers.

- A. Trinomial (3 terms) & Quadratic (highest exponent is a 2)
B. Binomial (2 terms) & Cubic (highest exponent is a 3)
- A. $3x^2+4x+19$ (make sure to combine like terms and then order from highest exponent to least exponent)
B. $x^3-3x^2-9x+10$ (remember the minus changes the sign of every term in the parenthesis behind it)
- A. $10x^2+10x$ (Distribute 2x to every term in the parenthesis)
B. $9x^2+4$ (Use rectangle method, FOIL, or third special case)
C. $18x^2-27x^2+583x+98$ (Use rectangle method or distributive property)
D. $9x^2+26x+16$ (multiply $3x+4$ by itself using either rectangle method, FOIL, or first special case)
- A. 20 & -12 (This factors into $(x+20)(x+12)$, or use quadratic formula)
B. 10 & 20 (This factors into $(x+20)(x+10)$, or use quadratic formula)
C. 3 and -10.3 (This DOES NOT factor, use quadratic formula)
D. No solution (The discriminant – the part under the square root in the quadratic formula – is negative, so it is not possible to factor)
- 2.98 seconds (The projectile formula filled in is: $-16t^2+44t+8=0$. Set this equal to 0, use the quadratic formula to solve.)
- $w = 6.1$, $l = 22.4$ (The length expression is $4w - 2$, multiply length times width and set equal to the area of 135, that equation is $4w^2-2w=135$. Distribute w, set the equation equal to 0 and use the quadratic formula to find w, use that number to find the length.)
- A. $x+2$ (The numerator factors into $(x+2)(x+1)$, the $(x+1)$'s cancel out and $x+2$ is left)
B. $2(x+8)$ (The numerator factors into $2(x+8)(x+2)$, the $(x+2)$'s cancel out and $2(x+8)$ is left)
- 430.1 ft (Divide 81 by 4, that gives the length of each side, 20.25, to find the area multiply 20.25 by 20.25)
- A. $x^4 + 6.75x^3 + 8.75x^2 - A_{\text{bottom}} + A_{\text{bottom}} = 2x^4 + 13.5x^3 + 17.5x^2 + x^4 + 6.75x^3 + 8.75x^2$; $2x^4 + 13.5x^3 + 17.5x^2 + x^4 + 6.75x^3 + 8.75x^2$ gives the final answer.)

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