

Algebra 2 Practice Quiz 5.3**Numeric Response**

1. (5 points) Find the positive root of $x^2 - 4x - 21 = 0$.
2. (5 points) Find the sum of the roots of: $16x^2 - 16x + 3 = 0$.

Short Answer

3. (5 points) Find the zeros of $f(x) = x^2 + 6x + 5$ by factoring.
4. (5 points) Find the zeros of the function $h(x) = x^2 + 11x + 30$ by factoring.
5. (5 points) A toy rocket is launched from the ground level with an initial vertical velocity of 96 ft/s. After how many seconds will the rocket hit the ground?
6. (5 points) Find the roots of the equation $40x - 80 = 5x^2$ by factoring.
7. (5 points) Write a quadratic function in standard form with zeros 3 and -6 .

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Answer Section

NUMERIC RESPONSE

1. ANS: 7

PTS: 5

2. ANS: 1

PTS: 5

SHORT ANSWER

3. ANS:
-5 and -1

PTS: 5

4. ANS:
 $x = -5$ or $x = -6$

PTS: 5

5. ANS:
6 seconds

PTS: 5

6. ANS:
 $x = 4$

PTS: 5

7. ANS:
 $f(x) = x^2 + 3x - 18$

PTS: 5