

9.5

Date _____ Period _____

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Find all rational zeros.

1) $f(x) = 2x^2 + 3x + 1$

2) $f(x) = 3x^2 - x - 2$

3) $f(x) = 4x^3 - x^2 - 4x + 1$

4) $f(x) = 5x^2 + 6x + 1$

5) $f(x) = 3x^3 + 9x^2 - x - 14$

6) $f(x) = 3x^2 + 5x - 5$

7) $f(x) = 3x^3 + 6x^2 - 56x - 55$

8) $f(x) = 2x^3 + x^2 - 2x - 1$

9) $f(x) = 5x^3 + x^2 - 5x - 1$

10) $f(x) = 3x^3 - 17x^2 + 24x - 4$

Answers to 9.5 (ID: 1)

1) $\left\{-\frac{1}{2}, -1\right\}$

2) $\left\{-\frac{2}{3}, 1\right\}$

3) $\left\{\frac{1}{4}, -1, 1\right\}$

4) $\left\{-1, -\frac{1}{5}\right\}$

5) $\{-2\}$

6) None

7) $\{-5\}$

8) $\left\{1, -\frac{1}{2}, -1\right\}$

9) $\left\{-1, -\frac{1}{5}, 1\right\}$

10) $\{2\}$