

Rational Root Theorem

Solutions

- Potential Rational Roots: 1, -1, 3, -3, 9, -9
Actual Rational Roots: -3
- Potential Rational Roots: 1, -1, 2, -2, 3, -3, 6, -6
Actual Rational Roots: 1
- Potential Rational Roots: $\frac{5}{3}$, $-\frac{5}{3}$, $\frac{1}{3}$, $-\frac{1}{3}$, 5, -5, 1, -1
Actual Rational Roots: none
- Potential Rational Roots: 6, -6, 2, -2, 3, -3, 1, -1
Actual Rational Roots: none
- Potential Rational Roots: 2, -2, 1, -1
Actual Rational Roots: none
- Potential Rational Roots: $\frac{3}{4}$, $-\frac{3}{4}$, $\frac{3}{2}$, $-\frac{3}{2}$, 3, -3, $\frac{1}{4}$, $-\frac{1}{4}$, $\frac{1}{2}$, $-\frac{1}{2}$, 1, -1
Actual Rational Roots: $\frac{1}{4}$
- Potential Rational Roots: $\frac{9}{2}$, $-\frac{9}{2}$, $\frac{3}{2}$, $-\frac{3}{2}$, $\frac{1}{2}$, $-\frac{1}{2}$, 9, -9, 3, -3, 1, -1
Actual Rational Roots: $\frac{3}{2}$
- Potential Rational Roots: $\frac{1}{45}$, $\frac{1}{9}$, $\frac{1}{15}$, $\frac{1}{5}$, $\frac{1}{3}$, 1, -1, $-\frac{1}{3}$, $-\frac{1}{5}$, $-\frac{1}{9}$, $-\frac{1}{15}$, $-\frac{1}{45}$
Actual Rational Roots: $\frac{1}{5}$, $-\frac{1}{9}$
- Potential Rational Roots: 1, 2, 3, 6, -1, -2, -3, -6
Actual Rational Roots: 1, 2, 3
- Potential Rational Roots: $\frac{28}{3}$, $-\frac{28}{3}$, 28, -28, $\frac{14}{3}$, $-\frac{14}{3}$, 14, -14, $\frac{7}{3}$, $-\frac{7}{3}$, 7, -7, $\frac{4}{3}$, $-\frac{4}{3}$, 4, -4, $\frac{2}{3}$, $-\frac{2}{3}$, 2, -2, $\frac{1}{3}$, $-\frac{1}{3}$, 1, -1