

Solving Rational Equations

Hartzler University

$$\frac{1}{6k^2} = \frac{1}{3k^2} - \frac{1}{k}$$

$$\frac{r-4}{5r} = \frac{1}{5r} + 1$$

$$1 = \frac{v+2}{v-4} + \frac{7v-42}{v-4}$$

$$\frac{n+5}{n+8} = 1 + \frac{6}{n+1}$$

$$\frac{1}{2x - 3} = \frac{1}{5 - 2x}$$

A fountain has two drainage valves. With one the first valve open, the fountain completely drains in 4 hours. With only the second valve open, the fountain completely drains in 5.25 hours. About how many hours will the fountain take to completely drain with both valves open? Round your answer to the nearest tenth.