

1. Dave and Linda climb stairs at the gym. Dave climbs 0.8 stairs/second; Linda climbs 280 floors per hour. 1 floor=10 stairs. who is faster ?

2. Solve $3x(x - 5) = 17$.

3. Solve $\sqrt{x^2 - x - 3} = \sqrt{x^2 - 4}$

4. Solve $x^2 + x - 2 < 0$

5. Simplify $\frac{7-\frac{1}{3}}{2+\frac{1}{6}} + \frac{1}{2}$

6. Solve

$$2x - y = 13$$

$$3x + 4y = 3$$

7. Solve

$$y = \frac{1}{2}x + 1$$

$$x^2 + y^2 = 25$$