

Answer for
Trivia 1

1. a) $8/11$ b) $227/165$

2. a) $5/4$ b) 4

3. a) $18\sqrt{14}$, b) 160 c) $12^3\sqrt{6}$ d) $\frac{6^5\sqrt{7500}}{25}$

4. a) $9\sqrt{3}$ b) $12\sqrt{2} - 16\sqrt{6}$

5. a) $-2\sqrt{2}$ b) $\frac{5\sqrt{3}-6\sqrt{2}}{5}$

6. a) $\frac{2^3\sqrt{4}+2^3\sqrt{10}+2^3\sqrt{25}}{-3}$ b) $\frac{4^5\sqrt{625}-4^5\sqrt{250}+4^5\sqrt{100}-4^5\sqrt{40}+4^5\sqrt{16}}{7}$

7. a) $1-I$

8. $2 * 15^{\frac{1}{3}} a^{-\frac{1}{12}} b^{-\frac{1}{6}} c^5 d^{\frac{4}{3}}$

9. $2a + \frac{7}{3}b$

Trivia 2

1. a) $(0.5, 0.5)$ b) $\sqrt{106}$ c) $y = \frac{9}{5}x - \frac{2}{5}$ d) $(\frac{4}{3}, 2)$

2. a) $y = 2x - 1$ b) $2x + 3y = 0$ c) $2x + 3y = 23$

3. a) $x = \frac{16}{19}$, $y = -\frac{17}{19}$ b) $x = 4$, $y = -\frac{8}{3}$ c) $x = 1$, $y = 4$ d) $x = 1, y = 2, z = -4$

4. a) $x > \frac{5}{2}$ b) $x < -7$ c) use desmos d) $13/25$

5. $\frac{17\sqrt{13}}{13}$

6. $(\frac{42}{29}, \frac{-18}{29})$