

Shortest Distance Between a Point and a Line

Workout

Question 1:

- (a) -1 (b) $y = -x + 5$ (c) $(2,3)$ (d) 4.24

Question 2:

- (a) $-\frac{1}{2}$ (b) $y = -\frac{1}{2}x + 4\frac{1}{2}$ (c) $(3,3)$ (d) 4.47

Question 3:

- (a) $y = 2x - 9$ (b) $(6,3)$ (c) 8.94

Question 4:

- (a) 7.07 (b) 13.88 (c) 31.62

Question 5:

- (a) 0.71 (b) 4.02 (c) 2.24

Apply

Question 1: 0.71

Question 2: 39.5units^2