

Coordinate Geometry in Context Solutions

1.
 - i. $-\frac{1}{2}; -\frac{7}{10}; -1$
 - ii. $y = -\frac{1}{2}x + 21; y = -\frac{7}{10}x + 21; y = -x + 21$
 - iii. $W(30, 0)$
2.
 - i. $DE : x + y - 4.5 = 0; AB : x - y = 0$
 - ii. $D(1.5, 3); E(3, 1.5)$
 - iii. $\approx 3.35 \text{ units}$
3.
 - i. $\frac{4}{3}$
 - ii. $4x - 3y = 0$
 - iii. 3 km
4.
 - i. 8m , 16m
 - ii. $l_1 : 4x - 5y = 0; l_3 : 8x - 5y = 0$
 - iii. yes
 - iv. $l_2 : 6x - 5y = 0$; yes
 - v. $38.66^\circ, 50.19, 57.99$; no
5. $\approx 85.54^\circ$