

Answer Sheet 1

1. a) $x \in [-2, 3)$ b) $x \in (1, 2) \cup (2, 3)$
2. a) $x \in [-\infty, 0] \cup [\frac{1}{2}, \infty]$ b) $x \in [-\infty, -1) \cup (-\frac{1}{3}, 0) \cup (0, \infty]$
3. a) $x \in (-4, 1) \cup (1, \infty]$ b) $x \in [-\infty, -\frac{3}{2}) \cup (\frac{1}{3}, \infty]$
4. a) $x \in [-4, -2]$ b) $x \in (-\frac{5}{2}, -\frac{1}{3})$
5. a) $x \in [-\infty, -1) \cup (0, \infty]$ b) $x \in [\infty, 0) \cup (0, \frac{1}{4})$
6. a) $y = 10x - 24$ b) $y = \frac{5}{4}x - 5$
7. a) $y = \frac{5}{2}x - \frac{23}{2}$ b) $y = 2x + 9$
8. a) They are. b) $k=1$
9. a) $y = -3x + 6$ b) $x + 3y = 7$
10. a) $(x-3)^2 + (y-5)^2 = 4$ b) $(x+2)^2 + (y-3)^2 = 50$
11. a) $(x+2)^2 + y^2 = 25$ b) $(x+1)^2 + (y-3)^2 = 5$
12. a) $k=-12$ b) $(x-5)^2 + (y-3)^2 = 18$