National 5	Rigour Tasks
Straight Line gradients and intercepts	

For each equation below, find:

a) The gradient

b) The coordinates of the y – intercept

1. $y = 5x + 2$
2. $y = -3x + 2$
3. $y = -2x - 9$
4. $y = 4x - 5$
5. $y = 7 - x$
6. $y = 21 - 4x$
7. $y = 5 - 4x$
8. $y = 9 - 11x$
9. $5y = 10x + 20$
10. $4y = 2x - 8$
11. $7y = 21x + 35$
12. $3y = -6x + 9$
13. $2x + 5y = 10$
14. $5x + 2y = 20$
15. $3x + 8y = -8$
16. $9x + 2y = 10$
17. $3x + 2y - 12 = 0$
18. $4x + 3y + 9 = 0$
19. $x - 5y - 15 = 0$
20. $3x - y - 8 = 0$
21. $8x - 5y - 10 = 0$
22. $9x + 2y + 14 = 0$
23. $2x + 7y + 7 = 0$
24. $4x - 3y + 12 = 0$

For each of these equations, state the coordinates of the points where they cut BOTH axes:

25. $2x + 5y - 10 = 0$
26. $4x + 2y + 12 = 0$
27. $5x - y - 15 = 0$
28. $9x - 3y + 18 = 0$