1. $8x\left(3x-1\right)$
2. $6m^{2}n^{4}(3n^{2}-2n+4)$
3. $7x^{2}y(2x^{2}+y^{3}-4xy^{2}$
4. $\left(3x-1\right)\left(3x-1\right)$ or $\left(3x-1\right)^{2}$
5. $\left(y-9\right)\left(y-2\right)$
6. $\left(x-1\right)\left(3x+7\right)$
7. $6\left(x-3\right)\left(x+3\right)$
8. $(x+y)(x+y)$ or $\left(x+y\right)^{2}$
9. $\left(x+2\right)\left(x+y\right)$
10. $5c(2c+1)(2c+1)$ or $5c\left(2c+1\right)^{2}$
11. $5r\left(2r-1\right)\left(2r+1\right)$
12. $\left\{-\frac{2}{3}, 3\right\}$
13. $\left\{-7, 2\right\}$
14. $\left\{-3, 3\right\}$
15. {-5, -3}
16. $\left\{-\frac{1}{3}, 0\right\}$
17. $\left\{-2,\frac{1}{2}\right\}$
18. $\left\{5, 6\right\}$
19. $\left\{-3, 12\right\}$
20. $\left\{1, 15\right\}$
21. A