

Simplify the following:

$$12. a^{\frac{2}{5}} \cdot a^{\frac{8}{5}}$$

$$13. \frac{x^{\frac{2}{3}}}{x^{\frac{1}{5}}}$$

$$14. 36^{\frac{1}{4}}$$

Solve:

$$15. \sqrt{x+1} + 2 = 4$$

$$16. \sqrt[3]{5x+2} = 3$$

Simplify:

$$17. (3 - 7i) - (-5 + 2i)$$

$$19) i^{42}$$

$$18. (-2 + 2i)(4 + 6i)$$

$$20. \frac{3-7i}{2+4i}$$