Write as powers in simplest form:
(4 pts. each)

1) $2^2 \cdot 2^3 =$

2) $\left(2^5\right)^2 =$

3) $\dfrac{5^7 \cdot 5^2}{5^4 \div 5} =$

4) $r^2 \cdot r^3 \cdot r^4 =$

5) $t^{12} \div t^7 =$

6) $\left(a^5 b^2\right)\left(a^{11} b^7\right) =$

7) $\left(-x^6\right)^5 =$

8) $\left(-x^5\right)^6 =$

9) $\dfrac{\left(-6x^2 y^3\right)}{\left(3x^3 y^2\right)} =$

10) $\left(5a^2 b\right)^2 (abc)^3 =$

Write the following expressions in simplest form:
(5 pts. each)

11) $x(y - x + 3) =$

12) $2x(x - 5) =$

13) $x^2 y(x + y - xy) =$

14) $(x + 2)(x + 3) =$

15) $(b - 4)(b + 2) =$

16) $(2x - 1)(3x + 2) =$

17) $(x - 3y)^2 =$

18) $\dfrac{12x^2 y^3}{3xy} =$

19) $\dfrac{72r^2 s^3 t^4}{30rs^3 t^5} =$

20) On a sketch showing both axes…(for 15 points total)…PLOT and LABEL the following sets of rectangular coordinates.

$$\underline{6.0000,} \quad \underline{\text{-}5.0000,} \quad \underline{\sqrt{9.0000}\,,} \quad \underline{(-1.0000)^2} \quad , \quad \underline{\text{-}1.0000,} \quad \underline{0.0000}$$
$$7.0000, \quad \text{-}3.0000, \quad 4.5000 \ , \quad \text{-}1.0000/2.0000, \quad 4.0000, \quad \sqrt{2.0000}$$

…and finally, plot and label points using successive numbers on each of the axes as ordered pairs. [ e.g.: $(6.0000,7.0000)$ , $(-5.0000.-3.0000)$ , etc … ]