5.
$$x(x-6)(x+4)$$

6.
$$4k^3(k-5)(k+5)$$

7.
$$3p^3(p-8)(p+8)$$

8.
$$2m^4(m-8)(m-4)$$

9.
$$q^2(2q-3)(q+6)$$

10.
$$r^4(3r+4)(r-5)$$

11.
$$w^8(5w-2)(2w-3)$$

12.
$$v^7(3v+2)(6v+7)$$

13.
$$(x + 4)(x^2 - 4x + 16)$$

14.
$$(y + 8)(y^2 - 8y + 64)$$

15.
$$(g-7)(g^2+7g+49)$$

16.
$$(c-3)(c^2+3c+9)$$

17.
$$3h^6(h-4)(h^2+4h+16)$$

18.
$$9n^3(n-9)(n^2+9n+81)$$

19.
$$2t^4(2t+5)(4t^2-10t+125)$$

20.
$$135z^8(z-2)(z^2+2z+4)$$