1. Which of the following are valid prefix or postfix expressions?

$$D/A + BC -$$

$$E/A + B * C$$

2. Convert the following into prefix:

$$(X + Y) / P Q$$

3. If a = 1, b = 3, c = 2, and d = 4, evaluate the following prefix expression:

4. Convert the following expression into postfix:

$$3A / (B + C)A - B$$

5. Which of the following are valid postfix expressions?

A/
$$AB+C*$$

$$B/$$
 + A * B C

$$C/$$
 A + B * C

$$D/$$
 A B + C D * E / F - +

6. Convert the following expression into postfix:

7. Convert the following expression into prefix:

$$A (B + D) / (C - E)$$

8. Evaluate the following postfix expression when A = 1, B = 2, and C = 3: