Review on sections 8-5 and 8-6

1. Solve
$$5^{8r} = 49$$
.

- 2. Use the Change of Base Formula to evaluate log₄ 30.
- 3. Use the Change of Base Commutato solve $2^{7x} = 77$.

4. Solve
$$125^{9x-2} = 150$$
.

5. Solve
$$\log(3x + 5) = 1$$
.

6. Solve
$$3 \log 2x = 4$$
.

7. Solve
$$\log 3x + \log 10 = 0$$
.

8. Solve
$$\log(x + 9) - \log x = 3$$
.

9. Solve
$$2 \log 4 - \log 3 + 2 \log x - 4 = 0$$
.

Write the expression as a single natural logarithm.

10.
$$3 \ln 4 + 6 \ln b$$