**Functions Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Leading Question:** How do we use logarithms to solve equations?

**Logarithmic and Exponential Equations**

We saw in a previous lesson that for certain exponential equations there is a need to make use of logs in order to solve. We will investigate this a bit further:

**Examples**

Solve each of the following **exponential** equations:

a) b)

c) d)

e) f)

g)

**Examples**

Solve each of the following **logarithmic** equations:

a) b)

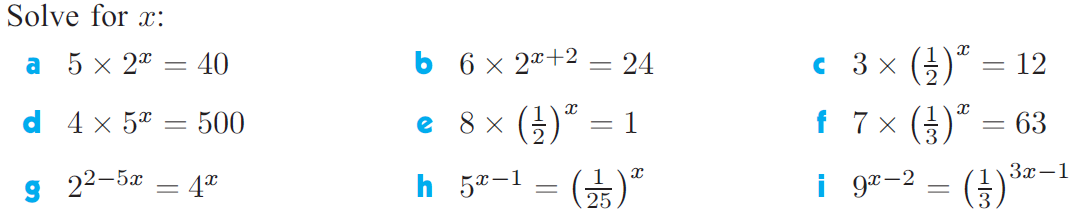
c) d)

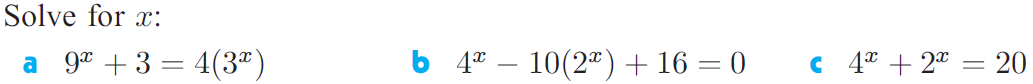
e) f)

g) h)

**Independent Practice**

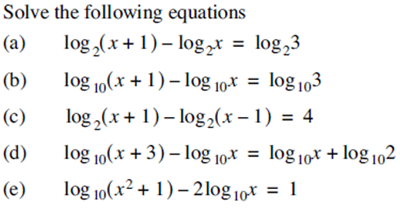
**1**



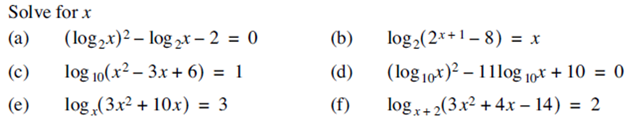


**2**

**3**

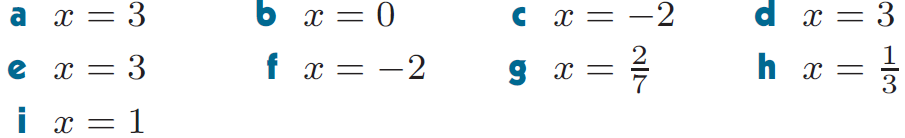
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**4**

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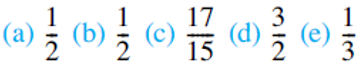
**Answers**

**1**



**2**





**3**

**4**

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