**Find the unknown angle in each case.**

1. **Angle A, if angle A and angle B are complementary and angle B = 30°.

Angle A = \_\_\_\_\_\_\_\_\_\_**
2. **Angle X, if angle X and angle Y are supplementary and angle Y = 110°.

Angle A = \_\_\_\_\_\_\_\_\_\_**
3.

**120°**

**120°**

**M**

**Angle M = \_\_\_\_\_\_\_\_\_\_**

1.

**30°**

**2x - 10°**

 **x = \_\_\_\_\_\_\_\_\_\_**

1. **The two angles forming a linear pair are always supplementary. Is this statement true or false?

\_\_\_\_\_\_\_\_\_\_\_**

**Match the columns for the figure given.**

**u**

**w**

**v**

**q**

**r**

**t**

**s**

**p**

|  |
| --- |
| **Angle p** and **q** |
| **Angle r** and **u** |
| **Angle p** and **w** |
| **Angle q** and **u** |
| **Angle t** and **w** |
| **Angle s** and **t** |
| **Angle q** and **v** |
| **Angle p** and **t** |
| **Angle t** and **u** |
| **Angle p** and **s** |

|  |
| --- |
| **Supplementary** |
| **Corresponding angles** |
| **Alternate angles** |
| **Vertical angles** |

**Use the diagram at the right for the questions below and answer whether the statement is true.**

**1. ∠**2 and ∠5 are adjacent angles.

**a. true b. false**

**2.** ∠1 and ∠4 are vertical angles.

**a. true b. false**

 **3.** ∠4 and ∠5 are complementary.

 **a. true b. false**

 **Find the unknown angles for the figure given below.**

**f**

**d**

**g**

**h**

**e**

**a**

**60°**

**b = 2x** $-$ **30°**

1. **Angle b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **Angle a = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **Angle d = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **Angle e = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **Angle f = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **Angle g = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
7. **Angle h = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Find the unknown angle in each case.**

1. **Angle A, if angle A and angle B are complementary and angle B = 30°.

Angle A = \_\_\_\_\_60°\_\_\_\_\_**
2. **Angle X, if angle X and angle Y are supplementary and angle Y = 110°.

Angle A = \_\_\_\_70°\_\_\_\_\_\_**
3.

**120°**

**120°**

**M**

**Angle M = \_\_\_\_\_60°\_\_\_\_\_**

1.

**30°**

**2x - 10°**

 **x = \_\_\_\_\_80°\_\_\_\_\_**

1. **The two angles forming a linear pair are always supplementary. Is this statement true or false?

\_\_\_\_\_true\_\_\_\_\_\_**

**Match the columns for the figure given.**

**u**

**w**

**v**

**q**

**r**

**t**

**s**

**p**

|  |
| --- |
| **Angle p** and **q** |
| **Angle r** and **u** |
| **Angle p** and **w** |
| **Angle q** and **u** |
| **Angle t** and **w** |
| **Angle s** and **t** |
| **Angle q** and **v** |
| **Angle p** and **t** |
| **Angle t** and **u** |
| **Angle p** and **s** |

|  |
| --- |
| **Supplementary** |
| **Corresponding angles** |
| **Alternate angles** |
| **Vertical angles** |

**Use the diagram at the right for the questions below and answer whether the statement is true.**

**1. ∠**2 and ∠5 are adjacent angles.

**a. true b. false**

**2.** ∠1 and ∠4 are vertical angles.

**a. true b. false**

 **3.** ∠4 and ∠5 are complementary.

 **a. true b. false**

 **Find the unknown angles for the figure given below.**

**f**

**d**

**g**

**h**

**e**

**a**

**60°**

**b = 2x** $-$ **30°**

1. **Angle b = \_\_\_\_\_\_\_\_45°\_\_\_\_\_\_\_\_\_**
2. **Angle a = \_\_\_\_\_\_\_\_135°\_\_\_\_\_\_\_\_\_**
3. **Angle d = \_\_\_\_\_\_\_\_135°\_\_\_\_\_\_\_\_\_**
4. **Angle e = \_\_\_\_\_\_\_\_\_135°\_\_\_\_\_\_\_\_**
5. **Angle f = \_\_\_\_\_\_\_\_\_45°\_\_\_\_\_\_\_\_**
6. **Angle g = \_\_\_\_\_\_\_\_\_45°\_\_\_\_\_\_\_\_**
7. **Angle h = \_\_\_\_\_\_\_\_135°\_\_\_\_\_\_\_\_\_**