**Model 9 – Waves – Worksheet 3**

**Wave Interactions**

1. The diagram below shows two pulses traveling toward each other in a uniform medium. Draw a diagram of the pulses when they meet at point X. What type of wave interaction is this?
2. Draw the reflected wave in the picture. Explain how you knew what it would be.
3. The diagram below shows two pulses, A and B, approaching each other in a uniform medium. Draw a diagram of the pulses when they meet. What type of wave interaction?
4. What wave interaction is shown in the diagram shown below. Explain why this happens.
5. The diagram below shows two pulses of equal amplitude, A, approaching point P along a string. Draw a diagram of the pulses when they meet at point P.
6. What wave interaction is shown in the diagram shown below.
7. Two pulses, A and B, travel toward each other along the same rope, as shown below. When the centers of the two pulses meet at point X, the amplitude of the resultant wave will be what? Draw a diagram to show this.