**5-3 Practice *Solving Trigonometric Equations***

**Solve each equation for all values of *x*.**

 **1.** cos *x* = 3 cos *x* – 2 **2.** 2 $sin^{2}$ *x* – 1 = 0

 **3. ☺ Don’t worry about it!** **4.** 2 $sin^{2}$ *x* – 5 sin *x* + 2 = 0

**Find all solutions of each equation on the interval [0, 2π).**

 **5.** $sec^{2}$ *x* + tan *x* = 1 **6.** 3 tan *x* – $\sqrt{3}$ = 0

 **7.** 4 $sin^{2}$ *x* – 4 sin *x* + 1 = 0 **8.** 4 $cos^{2}$ *x* – 1 = 0

 **9.**$\frac{cos^{3} x}{sin x}$= cot *x* **10.** tan *x* $sin^{2}$ *x* = 3 tan *x*

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