Algebra Review before 6.6 and 6.7

Solve these equations for the variable:

1) $\sqrt{2}x + 1 = 0$
2) $2x = 3\pi/4$
3) $x^2 + x = 0$
4) $x^2 - 1 = 0$
5) $2x^2 + x = 1$
6) $5x^2 - 2x - 3 = 0$
7) $x^2 + 1 = 0$

Answers:

1) $-\dfrac{1}{\sqrt{2}}$

2) $3\pi/8$

3) 0 and –1

4) 1 and –1

5) 1/2 and –1

6) –3/5 and 1

7) no solution in the real numbers