Algebra 3 Assignment # 4

Systems of Equations

Solve each of the following systems of equations using any method please.

(1) $3x^2 + 2y^2 = 30$
$2x^2 - y^2 = -1$

(2) $x^2 + y^2 - 4x - 4y = -4$
$x^2 + y^2 = 4$

(3) $x^2 + 3x - 2y = 2$
$x - 2y = 3$

(4) $2x - 3y = 1$
$y = \sqrt{3x - 5}$

(5) $x^2 + y^2 + 2x - 6y = 0$
$x^2 + y^2 - 2x - 2y = 8$

(6) $4x^2 + 3y^2 - 6x + 5y = 2$
$2x + 3y = 1$

(7) $x^3 - y^3 = -19$
$x - y = -1$

(8) $x^2 + x - y = 1$
$x^2 + y^2 = 2$

Algebra 3 Assignment # 4

Answers

(1) $(2\,,3)\,,(2\,,-3)\,,(-2\,,3)\,,(-2\,,-3)$

(2) $(0\,,2)\,,(2\,,0)$

(3) $(-1\,,-2)$

(4) $(2\,,1)\,,\left(\frac{23}{4}\,,\frac{7}{2}\right)$

(5) $(2\,,4)\,,(-2\,,0)$

(6) $\left(0\,,\frac{1}{3}\right)\,,(2\,,-1)$

(7) $(2\,,3)\,,(-3\,,-2)$

(8) $(1\,,1)\,,(-1\,,-1)$