## The Discriminant

Find the discriminant for each equation. Then determine the number of roots the graph will have.

1) $6 p^{2}-2 p-3=0$
2) $-2 x^{2}-x-1=0$
3) $-4 m^{2}-4 m+5=0$
4) $5 b^{2}+b-2=0$
5) $r^{2}+5 r+2=0$
6) $2 p^{2}+5 p-4=0$
7) $9 n^{2}-3 n-8=-10$
8) $-2 x^{2}-8 x-14=-6$
9) $9 m^{2}+6 m+6=5$
10) $4 a^{2}=8 a-4$
11) $-9 b^{2}=-8 b+8$
12) $-x^{2}-9=6 x$
