Use the critical value method to solve each polynomial inequality. Use interval notation to write each solution set.

1. $x^{2}+2 x-15 \leq 0$
2. $x^{3}+4 x^{2}>x+4$
3. $x^{2}-6 x+8 \geq 0$
4. $-2 x^{2}+10<8 x$
5. $x^{4}-10 x^{2}+9 \geq 0$
6. $2 x^{2}+3 x>0$
7. $x^{3}-3 x^{2}-9 x+27 \leq 0$
8. $x^{2}<3 x-2$
9. $x^{3} \geq 9 x^{2}$
10. A shoe manufacturer finds that the monthly revenue $R$ from a particular style of aerobics shoe is given by $R=312 x-3 x^{2}$, where $x$ is the price in dollars of each pair of shoes sold. Find the interval, in terms of , $x$, for which the monthly revenues is greater than or equal to $\$ 5925$.
