|  |
| --- |
| **Sketching Quartics** |
| Sketch the following curves and indicate clearly the points of intersection with the axes. |
| **(a)** | **(b)** | **(c)** |
| $$y=x(x-2)(x+3)(x-1)$$ | $$y=(x+1)(x-2)(x+3)(x-4)$$ | $$y=-(x-4)^{2}(x-2)^{2}$$ |
| **(d)** | **(e)** | **(f)** |
| $$y=x\left(x+1\right)^{2}(2-x)$$ | $$y=(x+2)^{4}$$ | $$y=(x^{2}-4x-5)(x^{2}+3x-4)$$ |