The Earth, as a habitat for animal life, is in old age and has a fatal illness. Several, in fact. It would be happening whether humans had ever evolved or not. But our presence is like the effect of an old-age patient who smokes many packs of cigarettes per day—and we humans are the cigarettes.

1. a) $6\left(x - \frac{5}{12}\right)^2 - \frac{1}{24}$

b) $-3\left(x - \frac{1}{3}\right)^2 + \frac{1}{3}$

c) $7\left(x + \frac{5}{14}\right)^2 + \frac{199}{28}$

d) $-\frac{1}{2}(x + 2)^2 + \frac{9}{2}$

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