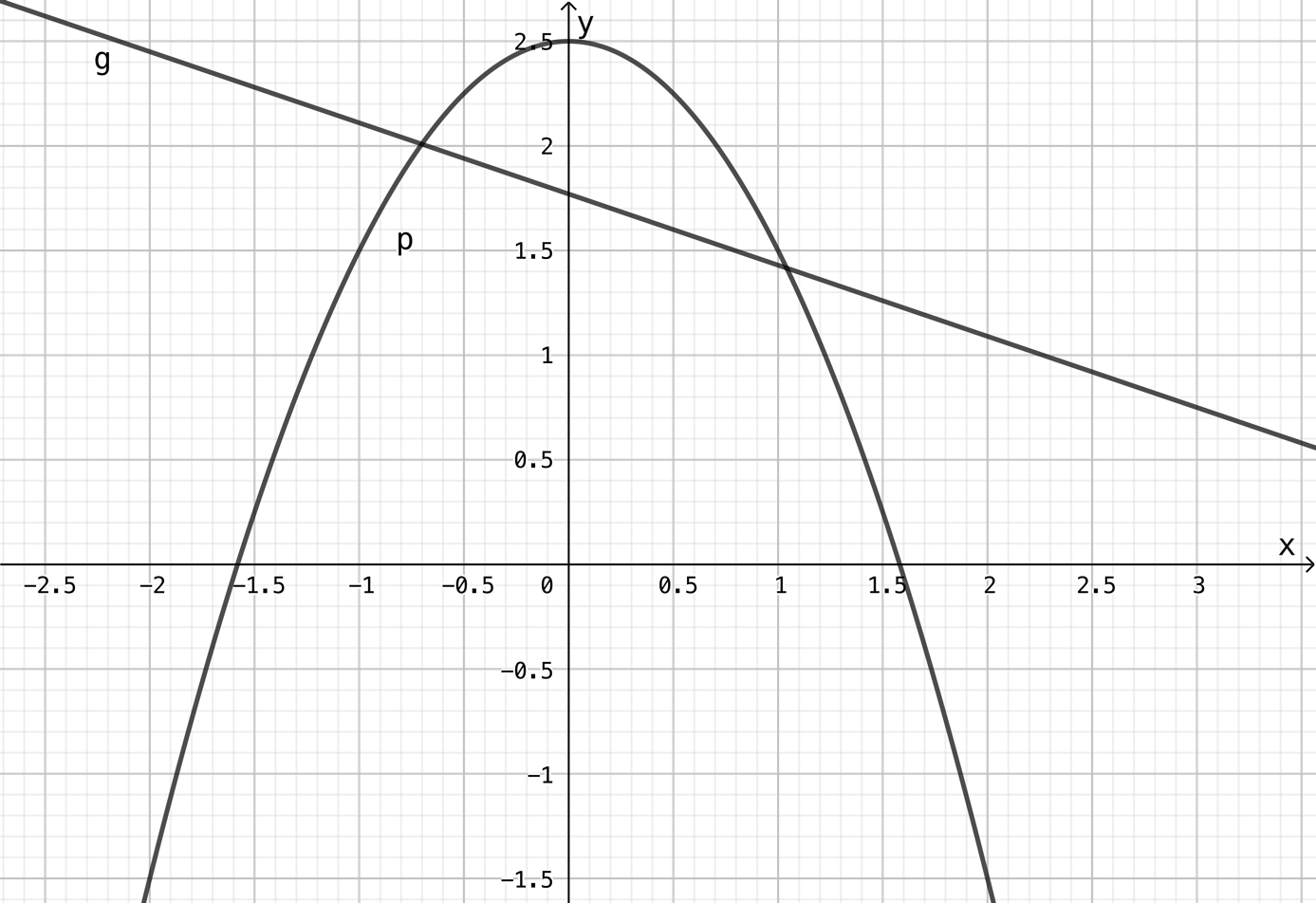
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| --- | --- |
|  | Öffnen Sie die App „Augmelity“ und scannen Sie damit das  Schloss-Bild ein.  Alle weiteren Anweisungen erhalten Sie dort. |

Geradengleichung g: y= -0,34x + 1,77

Parabelgleichung p: y= -x2 + 2,5

Zeichnen Sie die Schaubilder von p und g mit Hilfe einer Wertetabelle in das Koordinatensystem:

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| x | -2,0 | -1,5 | -1 | -0,5 | 0 | 0,5 | 1 | 1,5 | 2 |
| g: y | 2,45 | 2,28 | 2,11 | 1,94 | 1,77 | 1,6 | 1,43 | 1,26 | 1,09 |
| p: y | -1,5 | 0,25 | 1,5 | 2,25 | 2,5 | 2,25 | 1,5 | 0,25 | -1,5 |



Berechnen Sie die Schnittpunkte von g und p:

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|  |  |  |  |  |  |  |  |  |  | y=-0,34x + 1,77  y= -x2 + 2,5  y=y  -0,34x + 1,77 = -x2 + 2,5 | +0,34x  1,77 = -x2 + 0,34x + 2,5 | -1,77  0 = = -x2 + 0,34x + 0,73  a = -1 b= 0,34 c = 0,73    y1 = -0,34 1,04 + 1,77  y2 = -0,34 (-0,7) + 1,77  S1(1,04 | 1,42)  S2(-0,7 | 2,01) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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T

Lösungsbuchstabe:

Notieren Sie sich das **Vorgehen** zur Berechnung von Schnittpunkten zwischen

Geraden und Parabeln

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| Individuelle Schülerantwort.   1. Parabel- und Geradengleichung gleichsetzen. 2. Gleichung nach „ist gleich Null“ umformen. 3. Lösungsformel anwenden. 4. Lösungen in Geradengleichung einsetzen. 5. Schnittpunkte notieren. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Übung**:

Lösen Sie mindestens 4 der dargestellten Aufgaben auf einem Blatt Papier.

[](https://www.geogebra.org/m/fd6mtfvq)Geben Sie anschließend ein Feedback an Ihre Lehrkraft.