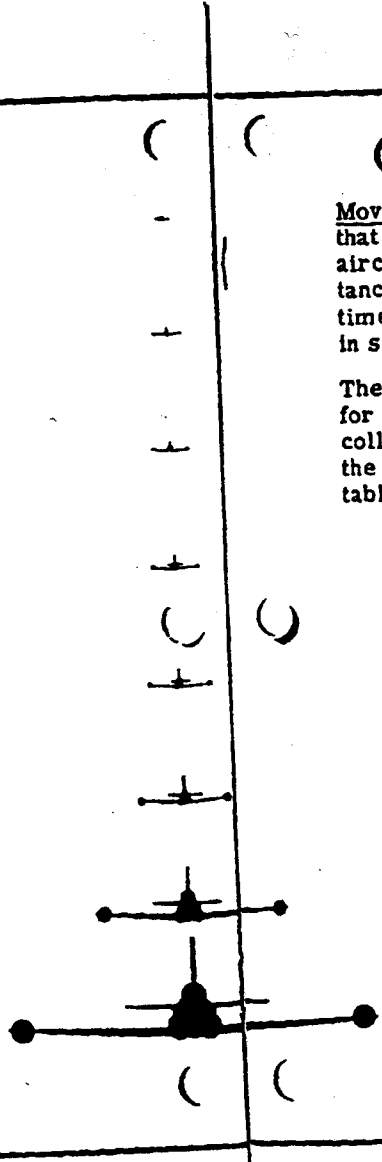


# DISTANCE - SPEED - TIME

| M P H    | 600     | 360 |
|----------|---------|-----|
|          | SECONDS |     |
| 10 miles | 60      | 100 |
| 6 miles  | 36      | 60  |
| 5 miles  | 30      | 50  |
| 4 miles  | 24      | 40  |
| 3 miles  | 18      | 30  |
| 2 miles  | 12      | 20  |
| 1 mile   | 6       | 10  |
| 1/2 mile | 3       | 5   |



# CRITICAL SECONDS

Move back 12 feet from this illustration. From that position the silhouettes represent a T-33 aircraft as it would appear to you from the distances indicated in the table on the left. The time required to cover these distances is given in seconds for combined speeds of 360 and 600 mph.

The blocks on the lower left mark the danger area for the speeds quoted, when aircraft are on a collision course. This danger area is based on the recognition and reaction times shown in the table on the lower right.

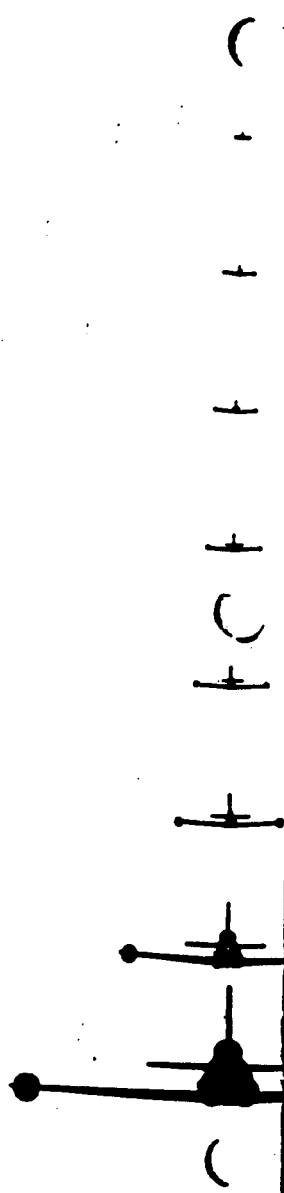
RECOGNITION and REACTION TIMES  
 (from U.S. Naval Aviation Safety Bulletin)

Excerpt

|                                  | Seconds     |
|----------------------------------|-------------|
| see object                       | 0.1         |
| recognize a/c                    | 1.0         |
| become aware of collision course | 5.0         |
| decision to turn left or right   | 4.0         |
| muscular reaction                | 0.4         |
| aircraft lag time                | 2.0         |
| <b>TOTAL</b>                     | <b>12.5</b> |

Distance, Speed, and Time - FAA VFR Pilot Exam-O-Gram  
 No. 29

| DISTANCE - SPEED - TIME |         |     |        |
|-------------------------|---------|-----|--------|
| M P H ▶                 | SECONDS |     |        |
|                         | 600     | 360 |        |
| 10 miles                | 60      | 100 | ☾      |
| 6 miles                 | 36      | 60  | +      |
| 5 miles                 | 30      | 50  | +      |
| 4 miles                 | 24      | 40  | +      |
| 3 miles                 | 18      | 30  | ☾<br>+ |
| 2 miles                 | 12      | 20  | +      |
| 1 mile                  | 6       | 10  | +      |
| 1/2 mile                | 3       | 5   | +      |



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RECOGNITION  
and  
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(from U.S. Naval Avia-  
tion Safety Bulletin)

Excerpt

Seconds

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| <b>T O T A L</b>                 | <b>12.5</b> |